Agenda

• ArcGIS Field Apps overview
• What ways the apps work together
  - Demo
• How the apps are able to work together
• What other ways the apps can communicate
  - Demo
• Why is this important to you? (with developers in mind)
ArcGIS Field Apps overview

- Survey123 for ArcGIS
- Explorer for ArcGIS
- Navigator for ArcGIS
- Collector for ArcGIS
- Workforce for ArcGIS
ArcGIS Field Apps

Ecosystem

- Operations Dashboard for ArcGIS
- ArcGIS for Desktop
- ArcGIS Pro
- Workforce for ArcGIS
- Drone2Map for ArcGIS
- Survey123 for ArcGIS
- Collector for ArcGIS
- Explorer for ArcGIS
- Navigator for ArcGIS
ArcGIS Field Apps

Survey123 for ArcGIS

Form Centric Data Collection
Create smart forms
Collect anytime, anywhere
Analyze & share results

ArcGIS Field Apps

Explorer for ArcGIS

The platform ice-breaker

Your maps anywhere

Access information while disconnected

Sketch, annotate, and communicate

ArcGIS Field Apps

Navigator for ArcGIS

Maps built from your own data

Fully integrated with other Field Apps

Work Offline

Route with custom travel modes

ArcGIS Field Apps

Collector for ArcGIS

Map Centric Data Collection

Web Maps

Works offline

High accuracy GPS

ArcGIS Field Apps

Workforce for ArcGIS

Plan, coordinate field work

Create & Manage field assignments

Location Awareness

Complete Field App integration

ArcGIS Field Apps
What ways the apps work together
ArcGIS Field Apps

What ways the apps work together
ArcGIS Field Apps

What ways the apps work together
Demo: ArcGIS Field Apps working together

- Survey123 for ArcGIS
- Explorer for ArcGIS
- Navigator for ArcGIS
- Collector for ArcGIS
- Workforce for ArcGIS
How the apps are able to work together

Deep Linking with URL Schemes
How the apps are able to work together

A method of invoking and passing state between applications
A method of invoking and passing state between applications

How the apps are able to work together

What is a URL Scheme?

Contacts.app

Phone.app

URL Scheme
tel: 555-0155
How the apps are able to work together
Sounds fancy ....

1. Identifying information for the app being invoked – “App Scheme”
2. App specific data or parameters
How the apps are able to work together

Sounds fancy ….

1. Identifying information for the app being invoked – “App Scheme”
2. App specific data or parameters

```
1. Scheme
   MyApp://?argument=value

2. Data
   arcgis-explorer://?itemID=1cde286f20b74fa69b3c36dfa1e81a85
   arcgis-navigator://?stop=41.780618,-88.179449&stopname=Dropped+Pin
```
What other ways the apps can communicate

**URL Scheme support**
- Survey123 for ArcGIS
- Explorer for ArcGIS
- Navigator for ArcGIS
- Collector for ArcGIS
- Workforce for ArcGIS
URL Scheme support

Survey123 for ArcGIS

arcsis-survey123://?

- **itemID** - The ID of the form to load
- **field:<field_name>** - assign a value to a given field/question
- **center** - The location for the point question

[link to documentation](http://doc.arcgis.com/en/survey123/desktop/create-surveys/integratewithotherapps.htm)
URL Scheme support

Survey123 for ArcGIS

Demo Examples:

Open survey

Pre-populated fields

URL Scheme support

Explorer for ArcGIS

```
arcgis-explorer://?
```

- **itemID** - Web Map or MMPK to open/download on launch
- **center** - center point of map - Lat/Lon, Address, Feature
- **wkid** - provide wkid for Lat/Lon in non-WGS84 spatial reference
- **scale** - scale to display the map at on launch
- **rotation** - custom map rotation
- **markup** - enable markup tool on launch
- **bookmark** - center map on bookmark instead of using center param
- **search** - quickly execute search for feature in map

GitHub Repository: https://github.com/Esri/explorer-integration
URL Scheme support

Explorer for ArcGIS

Demo Examples:

Open Web Map
Center on coordinates

Open MMPK
Center on feature

Search feature

GitHub Repository: https://github.com/Esri/explorer-integration
URL Scheme support

Navigator for ArcGIS

`arcgis-navigator://?`

- **start** - Start location
- **startname** - Name of start
- **stop** - Location of a stop
- **stopname** - Name of stop
- **callback** - Callback URL scheme
- **callbackprompt** - Prompt displayed in the app
- **optimize** - Boolean to determine if route is optimized
- **travelmode** - Travel mode used when calculating the route

GitHub Repository: https://github.com/Esri/navigator-integration
URL Scheme support

Navigator for ArcGIS

Demo Examples:

Route to single stop

Route to many stops

Optimize route to many stops

GitHub Repository: https://github.com/Esri/navigator-integration
URL Scheme support

Collector for ArcGIS

`arcgis-collector://?`

- **itemID** - item ID of the webmap you want to open on launch
- **center** - coordinates of centering point
- **featureSourceURL** - the URL to the layer to collect a feature
- **featureAttributes** - JSON dictionary of attributes for new feature

GitHub Repository: https://github.com/Esri/collector-integration
URL Scheme support

Demo Examples:

Open Web Map

Set location for new feature

Set location and pre-populated fields

GitHub Repository: https://github.com/Esri/collector-integration
URL Scheme support

Workforce for ArcGIS: Default app integrations

- Collector for ArcGIS
  1. Select map
  2. Assignment type
  3. Select information to pass

- Explorer for ArcGIS
  1. Select map
  2. Assignment type

- Navigator for ArcGIS

- Survey123 for ArcGIS
  1. Select map
  2. Assignment type
  3. Select information to pass
URL Scheme support

**Workforce for ArcGIS: Custom app integrations**

- **Collector for ArcGIS**
  1. Select map
  2. Assignment type
  3. Select information to pass

- **Explorer for ArcGIS**
  1. Select map
  2. Assignment type

- **Navigator for ArcGIS**
  1. Select map
  2. Assignment type
  3. Select information to pass

- **Survey123 for ArcGIS**
  1. Select map
  2. Assignment type
  3. Select information to pass

- **Your custom app**
  1. ????
URL Scheme support

Workforce for ArcGIS: Add custom app integrations

https://ago-assistant.esri.com/
URL Scheme support

Workforce for ArcGIS: App integrations

Demo:
URL Scheme support

Ways to deep link to ArcGIS Field Apps

• Host a web page with links
• Email or text message
• Email or text attachment
• Custom app
Why is this important to you?
(with developers in mind)
Why is this important to you?
Not only our apps can talk to each other
Custom integrations *in* Field Apps
- Shown from Workforce for ArcGIS

Integrate *to* Field Apps from custom app
- Shown from custom URLer app

Custom integrations *from* Field Apps
- Let’s see how…

Why is this important to you?
Not only our apps can talk to each other
Overview

• ArcGIS Field Apps overview
• What ways the apps work together (Out of the box integrations)
• How the apps are able to work together (Deep linking with URL Scheme)
• What other ways the apps can communicate (URL Scheme support)
• Why is this important to you? (Integrate with custom / 3rd party applications)
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<th>WORKSHOP</th>
<th>LOCATION</th>
<th>TIME FRAME</th>
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</thead>
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<td>Demo Theater 09</td>
<td>Wed 7/11/2018 12:15 PM - 01:00 PM</td>
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Please Take Our Survey on the App

Download the Esri Events app and find your event

Select the session you attended

Scroll down to find the feedback section

Complete answers and select “Submit”
Resources and Questions


GitHub repos

• Navigator: https://github.com/Esri/navigator-integration
• Collector: https://github.com/Esri/collector-integration
• Explorer: https://github.com/Esri/explorer-integration